What is claimed is:

1. A clip assembly for attaching a heat sink to an electronic package that is mounted to a circuit board, comprising:

   a retention frame adapted to be attached to the circuit board around the electronic package, at least a pair of pivot means respectively formed at opposite sides of the retention frame; and

   at least one clip pivotally attached to the retention frame at the at least a pair of pivot means, the at least one clip comprising a main body and a handle pivotally connected to the main body, the handle forming a cam portion at one end thereof and being adapted to press the heat sink to the electronic package; wherein

   when the at least one clip is rotated outwardly to make way for the heat sink to rest on the electronic package, the cam portion of the handle does not contact the heat sink; and when the at least one clip is rotated inwardly, the handle is suspended above the heat sink and can be rotated so that the cam portion resiliently presses the heat sink to the electronic package.

2. The clip assembly as described in claim 1, wherein the retention frame comprises a base, and a pair of side plates extending from opposite sides of the base.

3. The clip assembly as described in claim 1, wherein a stop is formed in the vicinity of one of the at least a pair of pivot means.

4. The clip assembly as described in claim 1, wherein said at least a pair of pivot means comprises at least a pair of pivots extending outwardly from said opposite sides of the retention frame.

5. The clip assembly as described in claim 4, wherein the main body of the at least one clip comprises a cross beam, and a pair of locking arms extending from opposite ends of the cross beam, the locking arms defining a pair of locking holes pivotally receiving the pivots of the retention frame.

6. The clip assembly as described in claim 5, wherein the main body comprises a pair of side walls at opposite sides of the cross beam, the side walls define a slot therebetween, and the cam portion is received in the slot.

7. The clip assembly as described in claim 6, wherein a vertical through opening is defined in a center of the cross beam, the side walls of the cross beam define a pair of pivot holes, a pair of pins protrudes outwardly from opposite sides of the cam portion, and the pins are pivotably engaged in the pivot holes of the cross beam.

8. The clip assembly as described in claim 6, wherein a blocking member is formed in the slot near one end of the cross beam, for preventing the handle from over-rotating into the slot.

9. The clip assembly as described in claim 6, wherein a protrusion is formed on an inner side of one of the side walls, for preventing the handle from rebounding.

10. The clip assembly as described in claim 6, wherein a blocking member extends from an inner side of one of the side walls near the vertical through opening, for limiting an angle of the rotation of the handle.

11. The clip assembly as described in claim 5, wherein a first slanted notch is defined in an inner side of a distal end of each of the locking arms, for

facilitating the locking arms sliding along the corresponding pivots of the retention frame.

12. The clip assembly as described in claim 7, wherein a pair of second slanted notches is defined in the side walls of the cross beam, for facilitating entry of the pins of the handle into the slot.

13. A heat sink assembly comprising:

a retention frame attached on a circuit board, the retention frame comprising at least a first pivot means at opposite sides thereof;

a heat sink attached on an electronic package that is mounted to the circuit board, the retention frame being disposed around the heat sink;

at least one clip pivotally attached to the retention frame at the at least a first pivot means, the at least one clip comprising a main body and a handle, the main body having a second pivot means, the handle being pivotally connected to the main body at the second pivot means, the handle forming a cam portion at one end thereof for pressing the heat sink to the electronic package; wherein

the at least one clip pivots in a first direction in order to make way for the heat sink to rest on the electronic package, and the handle pivots in a second direction substantially perpendicular to the first direction in order to press on the heat sink.

14. The heat sink assembly as described in claim 13, wherein the at least a first pivot means comprises a pair of pivots protruding from said opposite sides of the retention frame.

15. The heat sink assembly as described in claim 14, wherein the main body comprises a cross beam, two locking arms extend from opposite ends of the

cross beam, a distal end of each of the locking arms defines a locking hole, the locking holes pivotally receiving the pivots of the retention module.

16. The heat sink assembly as described in claim 13, wherein the second pivot means comprises a pair of pivot holes defined in opposite side walls of the main body, two pins protrude outwardly from opposite sides of the handle, and the pins are pivotably engaged in the pivot holes of the main body.

17. A heat sink assembly comprising:
a printed circuit board;
a retention frame secured to the printed circuit board;
an electronic package assembly mounted to the printed circuit board adjacent to said retention frame;
a heat sink seated upon the electronic package assembly; and
at least one clip including a main body pivotably mounted to the retention frame about a pivot extending along a horizontal direction, said clip further including an operation portion moveable relative to the main body; wherein
said clip is in a tensioned manner when said operation portion is in a first position so as to urge, in a vertical direction, the heat sink tightly abut against the electronic package assembly; said clip is in a relaxed manner when said operation portion is in a second position so as to allow the clip to be moveable relative to the retention frame for loading/unloading the heat sink with regard to the electronic package assembly.

18. The assembly as described in claim 17, wherein there are a pair of clips respectively mounted to two opposite ends of the retention frame.

19. The assembly as described in claim 17, wherein said operation portion is

pivotally mounted to the main portion about another pivot extending along another horizontal direction perpendicular to both said horizontal direction and said vertical direction.

20. The assembly as described in claim 17, wherein said retention frame further includes a stopper for restricting rotation of the clip relative to the retention frame.